






Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Three Way Circuits

**Directions:** Diagram the three way circuits below keeping the wiring inside the boxes just like you would do when assembling the circuits. Be sure to use the legend below for completing the diagrams. Do not draw in the ground wires.

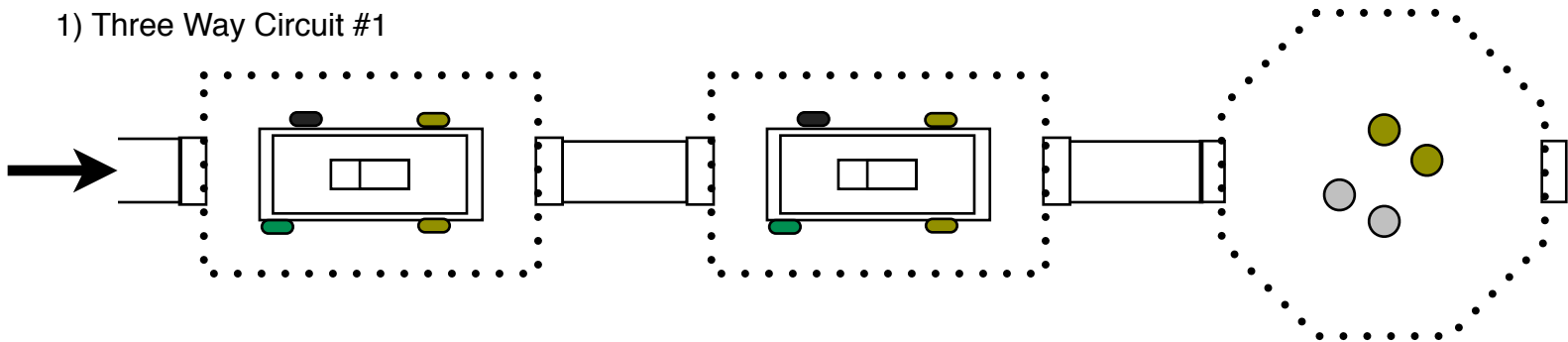
### Legend:

-  Positive Wire --Black line (use pen or black colored pencil)
-  Second Positive Wire --Red line (use pen or red colored pencil)
-  Neutral Wire --Grey line (use pencil or gray colored pencil)
-  Ground Wire --Green line if you were drawing in the ground (don't need to)
-  Wire Nut or Solder less Connector

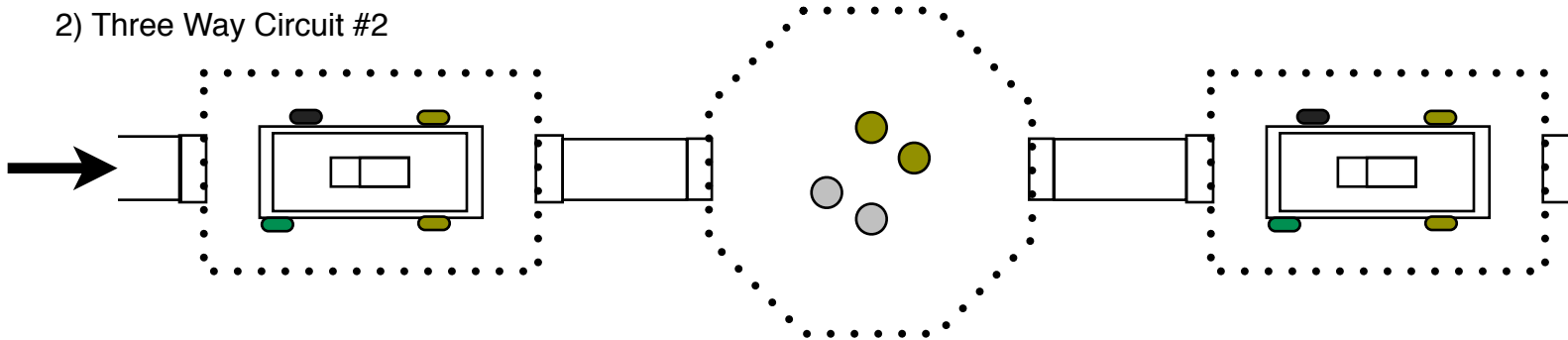
### Tips to Remember:

- 1) Positive (black wire) run to first common terminal
- 2) Positive (black wire) from other common terminal to device
- 3) Connect traveler wires (positive)
- 4) Neutral (white wire) run from device back to source
- 5) Ground the circuit

1) Three Way Circuit #1



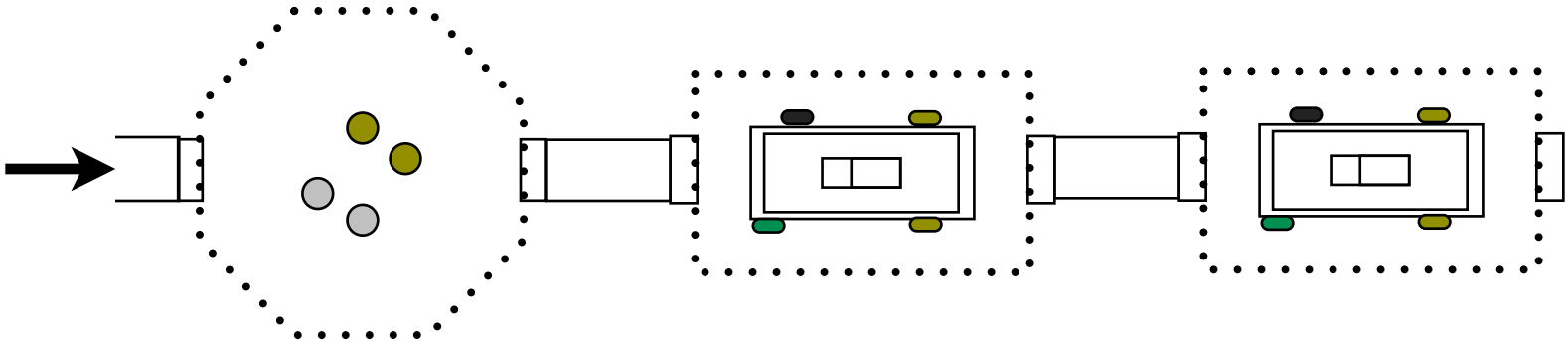
2) Three Way Circuit #2



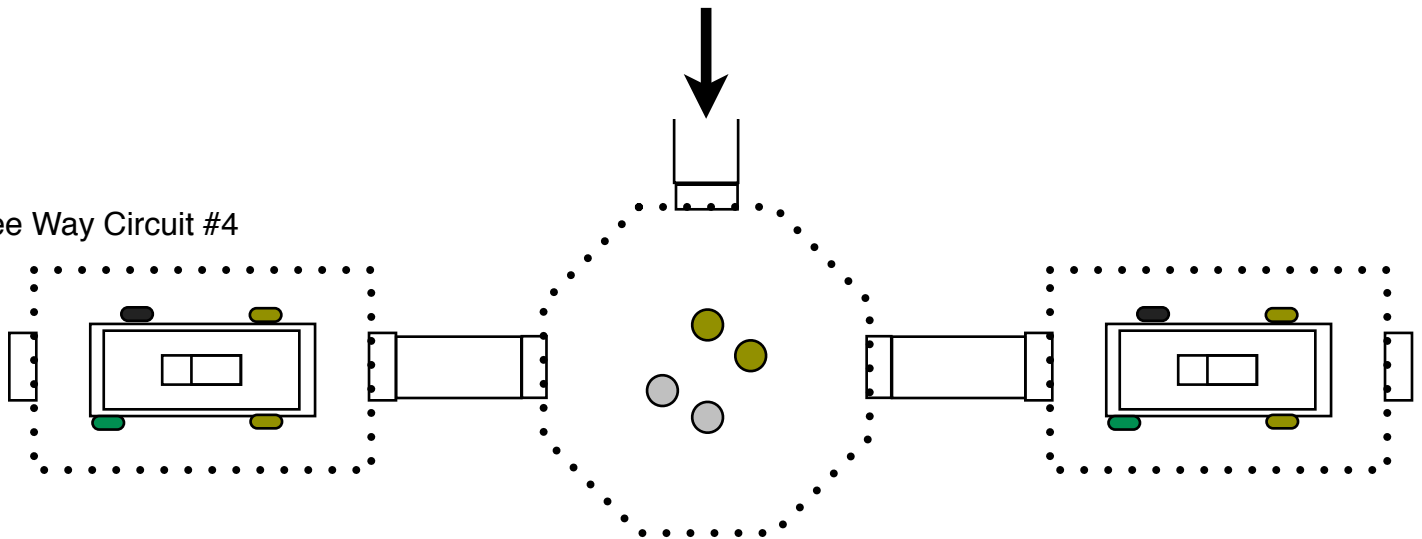
Name: \_\_\_\_\_

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### 3) Three Way Circuit #3



### 4) Three Way Circuit #4



### 5) Three Way Circuit Extra Credit

